



A.D. 1854 N^o 2661.

SPECIFICATION

OF

WILLIAM GILPIN AND ABRAHAM BOWEN.

FURNACES AND OVENS.

LONDON:

PRINTED BY GEORGE E. LYRE AND WILLIAM SPOTTISWOODE,

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1855.



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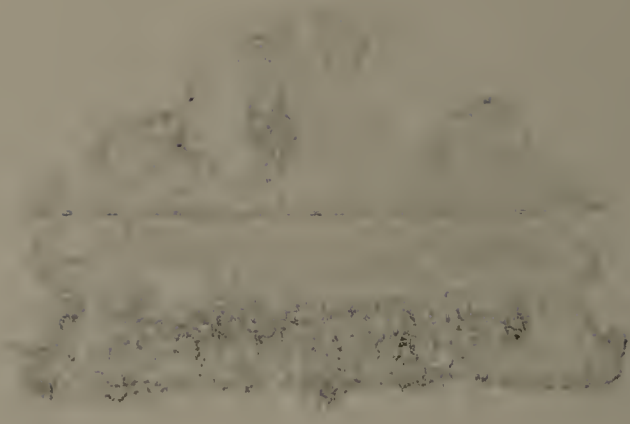
(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by William Gilpin and Abraham Bowen at the Office of the Commissioners of Patents, with their Petition, on the 18th December 1854.

We, WILLIAM GILPIN, of No. 2, Moorgate Street, London, and ABRAHAM
5 BOWEN, of Stafford Street, Peckham, Engineers, do hereby declare the nature
of the said Invention for “**A NEW METHOD FOR THE EFFECTUAL CONSUMPTION
OR PREVENTION OF SMOKE & THE MORE PERFECT COMBUSTION OF COALS & OTHER
FUEL BY MEANS OF A MECHANICAL APPARATUS AND FURNACE BARS OF A CERTAIN
CONSTRUCTION; A PORTION OF THE SAME MAY BE APPLIED FOR RAISING WATER,
10 AND IN FURNACES WHERE BLAST IS REQUIRED,**” to be as follows, viz. :—

By means of angular bars placed in the door of the furnace, & which may
also be applied as grate bars, we prevent the radiation of heat from the furnace
or oven. A further improvement consists in affixing an extra door or slide to
the door already formed of angular bars, whereby the supply of air to the
15 furnace may be regulated. Also, by means of a machine constructed in the
form of a screw, and which we propose to term “the Archimedian fan
exhauster,” we exhaust or draw from furnaces or sewers all smoke, gases,
or other volatile residuum.

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